

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thomas Watkins Lloyd et al. : Group Art Unit:
Serial No.: : Examiner:
Filed: :
For NON-CONTACT MEASUREMENT METHOD
AND APPARATUS :
;

INFORMATION DISCLOSURE STATEMENT

1 **Pursuant to 37CFR 1.97(b)**
[within 3 months of national, non-CPA filing or prior to 1st Office Action] *no charge*

2 **Certification Pursuant to 37 CFR 1.97(c)(1)**
[before Final Office Action, Allowance, or other action closing prosecution] *no charge*

3 **Fee Payment Pursuant to 37 CFR 1.97(c)(2)**
[before Final Office Action, Allowance, or other action closing prosecution] *\$180.00*

4 **Certification & Fee Payment Pursuant to 37 CFR 1.97(d)**
[On or before issue fee payment] *\$180.00*

ATTN: MAILSTOP PATENT APPLICATION
COMMISSIONER FOR PATENTS
ALEXANDRIA, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98:

5 A list of documents on form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.

Date of Deposit

Type or Print Name

Signature

This paper is submitted in accordance with:

6 37 CFR 1.97(b): [within 3 months of national, non-CPA filing or prior to 1st Office Action]

7 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and

8 The required Certification made in item 11 below;

9 ^{or} The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 15 below.

10 37 CFR 1.97(d): [on or before issue fee payment]; and

a) The required Certification is stated in item 11 below; and

b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.

11 Certification

12 Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or

13 No item contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.

14 Payment of all applicable fees:

15 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 07-0868

An original and two (2) copies of this document are enclosed.

Respectfully submitted,

3/8/04

Date

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FORM PTO-1449 (REV. 7-80) (Title Amended 3/83)								U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. RD29334		SERIAL NO.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT-- LIST OF ITEMS <i>(Use several sheets if necessary)</i>								Applicant Thomas Watkins Lloyd et al.					
								Filing Date				Group	

U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL	DOCUMENT NUMBER						DATE	NAME			CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	6	6	8	9	8	2	05/26/87	Timmerino	358	101	06/17/85
	AB	6	2	0	1	8	8	9	03/13/01	Vannah	382	131	06/18/98
	AC	4	9	0	8	7	8	2	03/13/90	Pekarek et al.	364	560	05/19/83
	AD	6	2	4	6	4	6	8	06/12/01	Dimsdale	356	4.02	10/23/98
	AE	5	9	1	7	9	4	0	06/29/99	Okajima et al.	382	173	01/23/97
	AF	4	4	8	2	9	7	1	11/13/84	Blazek	364	552	01/18/82
	AG	5	8	2	8	7	6	9	11/27/98	Burns	382	118	10/23/96
	AH	5	0	4	7	9	6	6	09/10/91	Crow et al.	364	560	05/22/89
	AI	5	2	0	8	7	6	3	05/04/93	Hong et al.	364	551.02	09/14/90
	AJ	5	5	2	1	8	4	7	05/28/96	Ostrowski et al.	264	559	07/01/94
	AK	5	6	2	7	7	7	1	05/06/97	Makino	364	560	05/06/97

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	No										
	AL	0	3	8	1	0	6	7	A	01/26/90	European		
	AM												
	AN												
	AO												
	AP												

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

AR	G.P. Stein, Accurate Internal Camera Calibration Using Rotation, With Analysis Of Sources Of Error, Artificial Intelligence Lab, MIT, Cambridge, MA 02139, 05/20/1995, pp. 230-236, 0-8186-7042-8/95 1995 IEEE.										
AS	Glenn Healey and Raghava Kondepudy, CCD Camera Calibration and Noise Estimation, Proceedings 1992 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, June 15-18, 1992, Champaign, IL., pp. 90-95.										
AT	Van-Duc Nguyen, Victor Nzomigni and Charles V. Stewart, Fast and Robust Registration of 3D Surfaces Using Low Curvature Patches, Published in International Conference on 3D Imaging and Modeling, Ottawa, October, 1999, pp. 1-8.										

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

RD-29,334

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

LIST OF ITEMS

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5	7	1	5	1	6					
	BB							02/03/98	Besl et al.	364	4	03/02/92
	BC											
	BD											
	BE											
	BF											
	BG											
	BH											
	BI											
	BJ											
	BK											

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	No
	BL							
	BM							
	BN							
	BO							
	BP							

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

BR	A.P. Ashbrook, and R.B. Fisher, Contracting Models of Articulating Objects: Range Data Partitioning, 0-8186-7943-3/97, 1997 IEEE, pp. 164-171.
BS	Kok F. Lai and Roland T. Chin, Deformable Contours: Modeling and Extraction, IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 17, No. 11, November 1995, pp. 1084-1090.
BT	JF Mangin, V. Frouin, B. Bendriem, Nonsupervised 3D Registration of PET and MRI Data Using Chamfer Matching, 0-7803-0883-2/93, 1993 IEEE, pp. 1262-1264.

EXAMINER

DATE CONSIDERED

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